



California State Fire Marshal
National Fire Incident Reporting System

Data as of: 01/28/2008 10:02:34AM

FDID Range:
0 to No Upper Bound

Incident Date Range:
01/01/2003 to 12/31/2007

Incident Type:
111 to 123

Automatic Fire Extinguisher System Operation, 2003-2007

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
2003									
	(Unspecified)								
		(Unspecified)	142	\$2,640,930	\$2,389,101	3	0	2	0
		Dry chemical system	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	10	\$10,600	\$5,000	3	0	0	0
		Subtotal	153	\$2,651,530	\$2,394,101	6	0	2	0
	Failed to Operate								
		Carbon dioxide (CO2) system	1	\$0	\$0	0	0	0	0
		Dry chemical system	11	\$242,300	\$214,200	0	0	0	0
		Other	4	\$1,000	\$1,100	0	0	0	0
		Other sprinkler system	2	\$33,000	\$32,000	0	0	0	0
		Undetermined	1	\$0	\$200	0	0	0	0
		Wet pipe sprinkler	15	\$703,300	\$113,650	0	0	0	0
		Subtotal	34	\$979,600	\$361,150	0	0	0	0
	Fire too small to Operate								
		(Unspecified)	3	\$250	\$0	0	0	0	0
		Carbon dioxide (CO2) system	2	\$600	\$0	0	0	0	0
		Dry chemical system	11	\$39,525	\$14,025	0	0	0	0
		Dry pipe sprinkler	5	\$5,500	\$550	0	0	0	0
		Halogen type system	1	\$4,000	\$0	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Other sprinkler system	2	\$1,100	\$0	0	0	0	0
		Undetermined	8	\$35,700	\$42,500	0	0	0	0
		Wet pipe sprinkler	166	\$366,666	\$281,792	3	0	4	0
		Subtotal	201	\$453,341	\$338,867	3	0	4	0
	Operated and Effective								
		(Unspecified)	4	\$23,000	\$5,600	0	0	0	0

Automatic Fire Extinguisher System Operation, 2003-2007

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Carbon dioxide (CO2) system	1	\$0	\$0	0	0	0	0
		Dry chemical system	9	\$5,350	\$53,100	0	0	0	0
		Dry pipe sprinkler	1	\$214,000	\$5,000	0	0	1	0
		Foam system	2	\$500	\$10,500	0	0	0	0
		Halogen type system	2	\$5,000	\$5,000	0	0	0	0
		Other	4	\$0	\$500	0	0	0	0
		Other sprinkler system	1	\$5,000	\$5,000	0	0	0	0
		Undetermined	1	\$25,000	\$0	0	0	0	0
		Wet pipe sprinkler	169	\$4,609,800	\$6,288,545	6	0	8	0
		Subtotal	194	\$4,887,650	\$6,373,245	6	0	9	0
	Operated and NOT Effective								
		Dry chemical system	2	\$38,000	\$15,500	0	0	0	0
		Dry pipe sprinkler	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	7	\$1,316,000	\$5,541,100	0	0	0	0
		Subtotal	10	\$1,354,000	\$5,556,600	0	0	0	0
	Operation of AES, other								
		Dry chemical system	1	\$0	\$500	0	0	0	0
		Wet pipe sprinkler	5	\$70,400	\$25,200	0	0	0	0
		Subtotal	6	\$70,400	\$25,700	0	0	0	0
	Undetermined								
		Dry chemical system	1	\$1,000	\$0	0	0	0	0
		Halogen type system	1	\$10,000	\$0	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Undetermined	254	\$4,377,715	\$637,541	3	0	6	2
		Wet pipe sprinkler	2	\$100	\$400	0	0	0	0
		Subtotal	261	\$4,388,815	\$637,941	3	0	6	2
2003	Total		859	\$14,785,336	\$15,687,604	18	0	21	2
2004	(Unspecified)								
		(Unspecified)	162	\$1,780,781	\$849,771	1	0	7	0
		Dry chemical system	2	\$1,000	\$2,000	0	0	0	0
		Dry pipe sprinkler	1	\$0	\$0	0	0	0	0
		Other	1	\$0	\$30	0	0	0	0
		Undetermined	3	\$600	\$65	0	0	1	0
		Wet pipe sprinkler	12	\$35,500	\$17,750	0	0	1	0

Automatic Fire Extinguisher System Operation, 2003-2007

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Subtotal	181	\$1,817,881	\$869,616	1	0	9	0
		Failed to Operate							
		(Unspecified)	1	\$0	\$0	0	0	0	0
		Carbon dioxide (CO2) system	1	\$20,000	\$0	0	0	0	0
		Dry chemical system	13	\$53,550	\$129,800	0	0	0	0
		Halogen type system	2	\$3,500	\$8,000	0	0	0	0
		Other	1	\$6,000	\$3,000	0	0	0	0
		Other sprinkler system	1	\$100	\$0	0	0	0	0
		Undetermined	4	\$2,500	\$1	0	0	0	0
		Wet pipe sprinkler	33	\$12,896,834	\$25,348,392	0	0	1	0
		Subtotal	56	\$12,982,484	\$25,489,193	0	0	1	0
		Fire too small to Operate							
		(Unspecified)	4	\$6,050	\$520	0	0	0	0
		Dry chemical system	16	\$47,110	\$17,501	0	0	1	0
		Dry pipe sprinkler	5	\$11,400	\$8,600	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Other sprinkler system	1	\$0	\$500	0	0	0	0
		Undetermined	9	\$26,200	\$101	0	0	0	0
		Wet pipe sprinkler	221	\$525,957	\$190,299	0	0	7	0
		Subtotal	257	\$616,717	\$217,521	0	0	8	0
		Operated and Effective							
		(Unspecified)	6	\$48,500	\$23,000	0	0	0	0
		Dry chemical system	8	\$89,500	\$66,500	0	0	0	0
		Dry pipe sprinkler	3	\$0	\$2,500	0	0	0	0
		Halogen type system	1	\$1,000	\$1,000	0	0	0	0
		Other	3	\$2,500	\$500	0	0	0	0
		Other sprinkler system	4	\$5,000	\$1,500	0	0	0	0
		Undetermined	3	\$45,000	\$5,000	0	0	1	0
		Wet pipe sprinkler	243	\$3,785,462	\$5,130,001	1	0	9	0
		Subtotal	271	\$3,976,962	\$5,230,001	1	0	10	0
		Operated and NOT Effective							
		(Unspecified)	2	\$15,000	\$5,000	0	0	0	0
		Dry chemical system	9	\$550,000	\$475,500	0	0	0	0
		Undetermined	3	\$140,000	\$87,500	1	0	0	0
		Wet pipe sprinkler	7	\$2,204,000	\$612,000	0	0	0	0
		Subtotal	21	\$2,909,000	\$1,180,000	1	0	0	0

Automatic Fire Extinguisher System Operation, 2003-2007

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Operation of AES, other									
		Wet pipe sprinkler	5	\$1,310,000	\$725,000	0	0	0	0
		Subtotal	5	\$1,310,000	\$725,000	0	0	0	0
Undetermined									
		Carbon dioxide (CO2) system	2	\$75,000	\$100,000	0	0	0	0
		Dry chemical system	5	\$15,000	\$3,005	0	0	0	0
		Other	3	\$0	\$0	0	0	0	0
		Other sprinkler system	2	\$21,000	\$0	0	0	0	0
		Undetermined	216	\$6,188,002	\$1,210,032	0	0	1	0
		Wet pipe sprinkler	6	\$280,000	\$70,000	0	0	0	0
		Subtotal	234	\$6,579,002	\$1,383,037	0	0	1	0
2004		Total	1,025	\$30,192,046	\$35,094,368	3	0	29	0
2005									
(Unspecified)									
		(Unspecified)	266	\$2,163,279	\$1,250,224	3	0	4	1
		Dry chemical system	5	\$2,400	\$2,100	0	0	0	0
		Halogen type system	2	\$5,000	\$15,000	0	0	0	0
		Other	3	\$35,200	\$18,000	0	0	0	0
		Other sprinkler system	3	\$206,000	\$100,000	0	0	0	0
		Undetermined	3	\$1,500	\$0	0	0	0	0
		Wet pipe sprinkler	44	\$151,600	\$169,710	1	0	1	0
		Subtotal	326	\$2,564,979	\$1,555,034	4	0	5	1
Failed to Operate									
		(Unspecified)	2	\$82,000	\$10,500	0	0	0	0
		Carbon dioxide (CO2) system	1	\$1,500	\$1,500	0	0	0	0
		Dry chemical system	20	\$559,501	\$201,301	1	0	0	0
		Foam system	1	\$0	\$0	0	0	0	0
		Other	1	\$5,000	\$5,000	0	0	0	0
		Other sprinkler system	5	\$755,000	\$50,500	0	0	0	0
		Undetermined	5	\$251,000	\$100,500	0	0	0	1
		Wet pipe sprinkler	58	\$868,350	\$6,600,552	0	0	2	0
		Subtotal	93	\$2,522,351	\$6,969,853	1	0	2	1
Fire too small to Operate									
		(Unspecified)	3	\$300	\$1,000	0	0	0	0
		Dry chemical system	28	\$194,900	\$93,225	0	0	0	0

Automatic Fire Extinguisher System Operation, 2003-2007

<u>Incident Year</u>	<u>AES Operation</u>	<u>AES Type</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
		Dry pipe sprinkler	12	\$53,550	\$2,000	0	0	0	0
		Foam system	1	\$0	\$0	0	0	0	0
		Halogen type system	1	\$25	\$2,500	0	0	0	0
		Other	1	\$0	\$0	0	0	0	0
		Other sprinkler system	8	\$61,800	\$100,350	2	0	0	0
		Undetermined	4	\$5,000	\$1,000	0	0	0	0
		Wet pipe sprinkler	343	\$1,749,944	\$3,827,502	2	0	12	0
		Subtotal	401	\$2,065,519	\$4,027,577	4	0	12	0
	Operated and Effective								
		(Unspecified)	5	\$225,500	\$123,000	0	0	0	0
		Carbon dioxide (CO2) system	2	\$40,000	\$10,000	4	0	0	0
		Dry chemical system	18	\$351,750	\$211,000	2	0	5	0
		Dry pipe sprinkler	2	\$1,100	\$1,100	0	0	0	0
		Foam system	2	\$5,000	\$1,000	0	0	0	0
		Halogen type system	1	\$2,000	\$2,000	0	0	0	0
		Other	6	\$54,000	\$13,000	0	0	0	0
		Other sprinkler system	11	\$149,700	\$169,500	0	0	0	0
		Undetermined	4	\$28,000	\$18,000	0	0	0	0
		Wet pipe sprinkler	354	\$7,714,600	\$11,820,045	4	0	22	1
		Subtotal	405	\$8,571,650	\$12,368,645	10	0	27	1
	Operated and NOT Effective								
		Carbon dioxide (CO2) system	1	\$1,250,000	\$500,000	0	0	0	0
		Dry chemical system	5	\$430,000	\$110,500	0	0	0	0
		Other	1	\$75,000	\$75,000	0	0	0	0
		Wet pipe sprinkler	11	\$1,182,000	\$556,000	1	0	0	0
		Subtotal	18	\$2,937,000	\$1,241,500	1	0	0	0
	Operation of AES, other								
		Other	2	\$30,000	\$200,250	0	0	0	0
		Wet pipe sprinkler	2	\$620,000	\$210,000	0	0	2	0
		Subtotal	4	\$650,000	\$410,250	0	0	2	0
	Undetermined								
		Dry chemical system	3	\$250	\$250	0	0	0	0
		Dry pipe sprinkler	2	\$6,000	\$6,000	0	0	0	0
		Halogen type system	3	\$545,000	\$285,000	0	0	0	0
		Other	1	\$5,000	\$20,000	0	0	0	0
		Undetermined	114	\$2,333,990	\$1,006,552	0	0	1	0

Automatic Fire Extinguisher System Operation, 2003-2007

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2005		Wet pipe sprinkler	10	\$1,126,000	\$750,500	0	0	0	0
		Subtotal	133	\$4,016,240	\$2,068,302	0	0	1	0
		Total	1,380	\$23,327,739	\$28,641,161	20	0	49	3
2006	(Unspecified)	(Unspecified)	189	\$1,797,568	\$692,973	0	0	1	0
		Dry chemical system	6	\$12,210	\$10,050	0	0	0	0
		Dry pipe sprinkler	1	\$25,000	\$1,200	0	0	0	0
		Other sprinkler system	3	\$2,300	\$5,200	0	0	0	0
		Undetermined	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	16	\$18,050	\$23,050	0	0	0	0
		Subtotal	216	\$1,855,128	\$732,473	0	0	1	0
	Failed to Operate	Carbon dioxide (CO2) system	3	\$5,000	\$123,500	0	0	0	0
		Dry chemical system	6	\$451,500	\$52,200	0	0	0	0
		Dry pipe sprinkler	1	\$200	\$2,500	0	0	0	0
		Foam system	1	\$0	\$250	0	0	0	0
		Other	2	\$100,100	\$1,100	0	0	0	0
		Other sprinkler system	1	\$0	\$0	0	0	0	0
		Undetermined	3	\$252,000	\$6,025	0	0	0	0
		Wet pipe sprinkler	36	\$3,630,720	\$710,912	0	0	0	0
		Subtotal	53	\$4,439,520	\$896,487	0	0	0	0
	Fire too small to Operate	(Unspecified)	2	\$10,500	\$15,000	0	0	0	0
		Carbon dioxide (CO2) system	2	\$1,500	\$3,000	0	0	0	0
		Dry chemical system	13	\$123,000	\$117,500	0	0	0	0
		Dry pipe sprinkler	9	\$11,200	\$24,265	0	0	0	1
		Foam system	1	\$1,000	\$0	0	0	0	0
		Other	4	\$95,250	\$11,500	0	0	0	0
		Other sprinkler system	2	\$2,000	\$5,000	0	0	0	0
		Undetermined	5	\$300	\$1,505	0	0	0	0
		Wet pipe sprinkler	335	\$1,009,955	\$1,484,250	0	0	6	0
		Subtotal	373	\$1,254,705	\$1,662,020	0	0	6	1
	Operated and Effective	(Unspecified)	6	\$33,500	\$16,400	0	0	0	0

Automatic Fire Extinguisher System Operation, 2003-2007

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		Carbon dioxide (CO2) system	2	\$5,000	\$2,000	0	0	0	0
		Dry chemical system	4	\$5,700	\$2,900	0	0	1	0
		Dry pipe sprinkler	5	\$795,001	\$417,000	0	0	0	0
		Foam system	2	\$5,000	\$5,000	0	0	0	0
		Other	4	\$0	\$0	0	0	0	0
		Other sprinkler system	6	\$512,800	\$11,050	0	0	0	0
		Undetermined	6	\$29,090	\$11,000	0	0	0	0
		Wet pipe sprinkler	312	\$4,516,400	\$5,221,681	4	0	8	0
		Subtotal	347	\$5,902,491	\$5,687,031	4	0	9	0
	Operated and NOT Effective								
		(Unspecified)	1	\$15,000	\$2,500	0	0	0	0
		Carbon dioxide (CO2) system	1	\$2,000	\$0	0	0	0	0
		Dry chemical system	7	\$807,000	\$1,188,500	0	0	0	0
		Other sprinkler system	3	\$21,000	\$2,000	0	0	0	0
		Undetermined	1	\$400,000	\$75,000	0	0	0	0
		Wet pipe sprinkler	12	\$102,047,500	\$2,288,500	0	0	1	0
		Subtotal	25	\$103,292,500	\$3,556,500	0	0	1	0
	Operation of AES, other								
		Other	1	\$1,400,000	\$250,000	0	0	0	0
		Other sprinkler system	1	\$0	\$0	0	0	0	0
		Wet pipe sprinkler	3	\$201,000	\$80,000	0	0	0	0
		Subtotal	5	\$1,601,000	\$330,000	0	0	0	0
	Undetermined								
		Carbon dioxide (CO2) system	1	\$300,000	\$250,000	0	0	0	0
		Dry chemical system	2	\$15,000	\$15,000	0	0	0	0
		Other	1	\$5,000	\$2,500	0	0	0	0
		Other sprinkler system	2	\$0	\$200	0	0	0	0
		Undetermined	92	\$7,136,403	\$2,390,099	1	0	4	0
		Wet pipe sprinkler	8	\$14,500	\$14,500	0	0	0	0
		Subtotal	106	\$7,470,903	\$2,672,299	1	0	4	0
2006	Total		1,125	\$125,816,247	\$15,536,810	5	0	21	1
2007									
	(Unspecified)								
		(Unspecified)	158	\$2,219,689	\$845,849	1	0	1	0
		Dry chemical system	3	\$21,000	\$3,100	0	0	0	0

Automatic Fire Extinguisher System Operation, 2003-2007

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		Dry pipe sprinkler	1	\$0	\$200	0	0	0	0
		Other sprinkler system	1	\$0	\$5,000	0	0	0	0
		Undetermined	3	\$8,000	\$50	0	0	0	0
		Wet pipe sprinkler	30	\$87,400	\$52,650	0	0	0	0
		Subtotal	196	\$2,336,089	\$906,849	1	0	1	0
	Failed to Operate								
		Dry chemical system	8	\$770,000	\$318,100	0	0	0	0
		Dry pipe sprinkler	1	\$200	\$0	0	0	0	0
		Other sprinkler system	1	\$100	\$0	0	0	0	0
		Undetermined	4	\$12,000	\$2,000	0	0	0	0
		Wet pipe sprinkler	40	\$100,902	\$115,920	0	0	0	0
		Subtotal	54	\$883,202	\$436,020	0	0	0	0
	Fire too small to Operate								
		(Unspecified)	1	\$0	\$5,000	0	0	0	0
		Dry chemical system	29	\$126,850	\$106,850	0	0	0	0
		Dry pipe sprinkler	8	\$272,010	\$250	0	0	0	0
		Foam system	1	\$250	\$100	0	0	0	0
		Halogen type system	1	\$0	\$0	0	0	0	0
		Other	2	\$0	\$600	0	0	0	0
		Other sprinkler system	3	\$500	\$0	0	0	0	0
		Undetermined	9	\$57,600	\$7,825	0	0	0	0
		Wet pipe sprinkler	206	\$692,025	\$219,993	0	0	10	0
		Subtotal	260	\$1,149,235	\$340,618	0	0	10	0
	Operated and Effective								
		(Unspecified)	8	\$101,700	\$36,650	0	0	0	0
		Carbon dioxide (CO2) system	2	\$10,000	\$60,000	0	0	0	0
		Dry chemical system	6	\$38,600	\$22,100	0	0	0	0
		Dry pipe sprinkler	1	\$0	\$0	0	0	0	0
		Halogen type system	2	\$0	\$0	0	0	0	0
		Other	5	\$1,000	\$1,250	0	0	0	0
		Other sprinkler system	3	\$15,500	\$30,000	0	0	0	0
		Undetermined	2	\$200	\$370	0	0	0	0
		Wet pipe sprinkler	255	\$13,048,173	\$28,565,818	1	0	7	1
		Subtotal	284	\$13,215,173	\$28,716,188	1	0	7	1
	Operated and NOT Effective								
		Carbon dioxide (CO2) system	1	\$0	\$25,000	0	0	0	0

Automatic Fire Extinguisher System Operation, 2003-2007

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		Dry chemical system	3	\$500,000	\$190,000	0	0	0	0
		Other	1	\$0	\$10,000	0	0	0	0
		Other sprinkler system	1	\$75	\$100	0	0	0	0
		Wet pipe sprinkler	10	\$5,822,000	\$6,562,500	0	0	0	0
		Subtotal	16	\$6,322,075	\$6,787,600	0	0	0	0
	Undetermined								
		(Unspecified)	1	\$0	\$0	0	0	0	0
		Carbon dioxide (CO2) system	1	\$0	\$0	0	0	0	0
		Undetermined	53	\$1,192,770	\$404,009	0	0	1	0
		Wet pipe sprinkler	7	\$1,700,500	\$25,100	0	0	0	0
		Subtotal	62	\$2,893,270	\$429,109	0	0	1	0
2007	Total		872	\$26,799,044	\$37,616,384	2	0	19	1
	Grand Total		5,261	\$220,920,412	\$132,576,327	48	0	139	7

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.